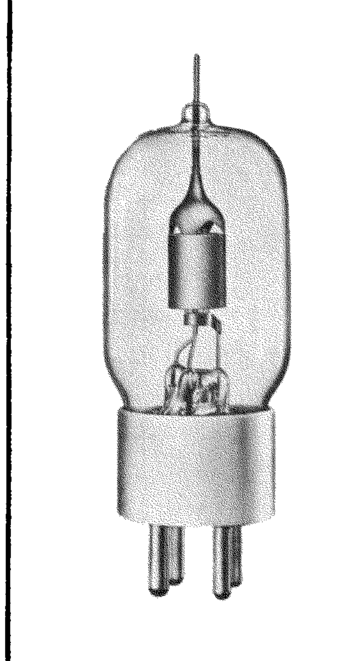


EITEL-McCULLOUGH, INC.
SAN BRUNO, CALIFORNIA

25T

MEDIUM-MU TRIODE
•
MODULATOR
OSCILLATOR
AMPLIFIER



GENERAL CHARACTERISTICS

Electrical

Filament: Thoriated tungsten

Voltage	▶6.3 volts
Current	3.0 amperes
Amplification Factor (Average)	24

Direct Interelectrode Capacitances (Average)

Grid-Plate	1.5 μμf
Grid-Filament	2.7 μμf
Plate-Filament	0.3 μμf
Transconductance (I_b=25 ma., E_b=1000, e_c=−15)	2500 μmhos

Mechanical

Base (Small 4-pin bayonet, ceramic)	RMA type M8-071
Basing	RMA type 3G

Maximum Overall Dimensions:

Length	4.50 inches
Diameter	1.44 inches
Net weight	1.00 ounce
Shipping weight (Average)	1.25 pounds

Audio Frequency Power Amplifier and Modulator

Class B

	Typical Operation—2 Tubes				Max. Rating	
D-C Plate Voltage	750	1000	1500	2000	2000	volts
Max.-Signal D-C Plate Current, per tube*	•	•	•	•	75	ma.
Plate Dissipation, per tube*	•	•	•	•	25	watts
D-C Grid Voltage (approx.)	–20	–30	–55	–80		volts
Peak A-F Grid Input Voltage	205	210	230	270		volts
Zero-Signal D-C Plate Current	43	32	21	16		ma.
Max.-Signal D-C Plate Current	133	120	94	80		ma.
Max.-Signal Driving Power (approx.)	1.4	1.2	0.8	0.7		watts
Effective Load, Plate-to-Plate	9200	15800	33700	55500		ohms
Max.-Signal Plate Power Output	50	70	90	110		watts

*Averaged over any sinusoidal audio frequency cycle.

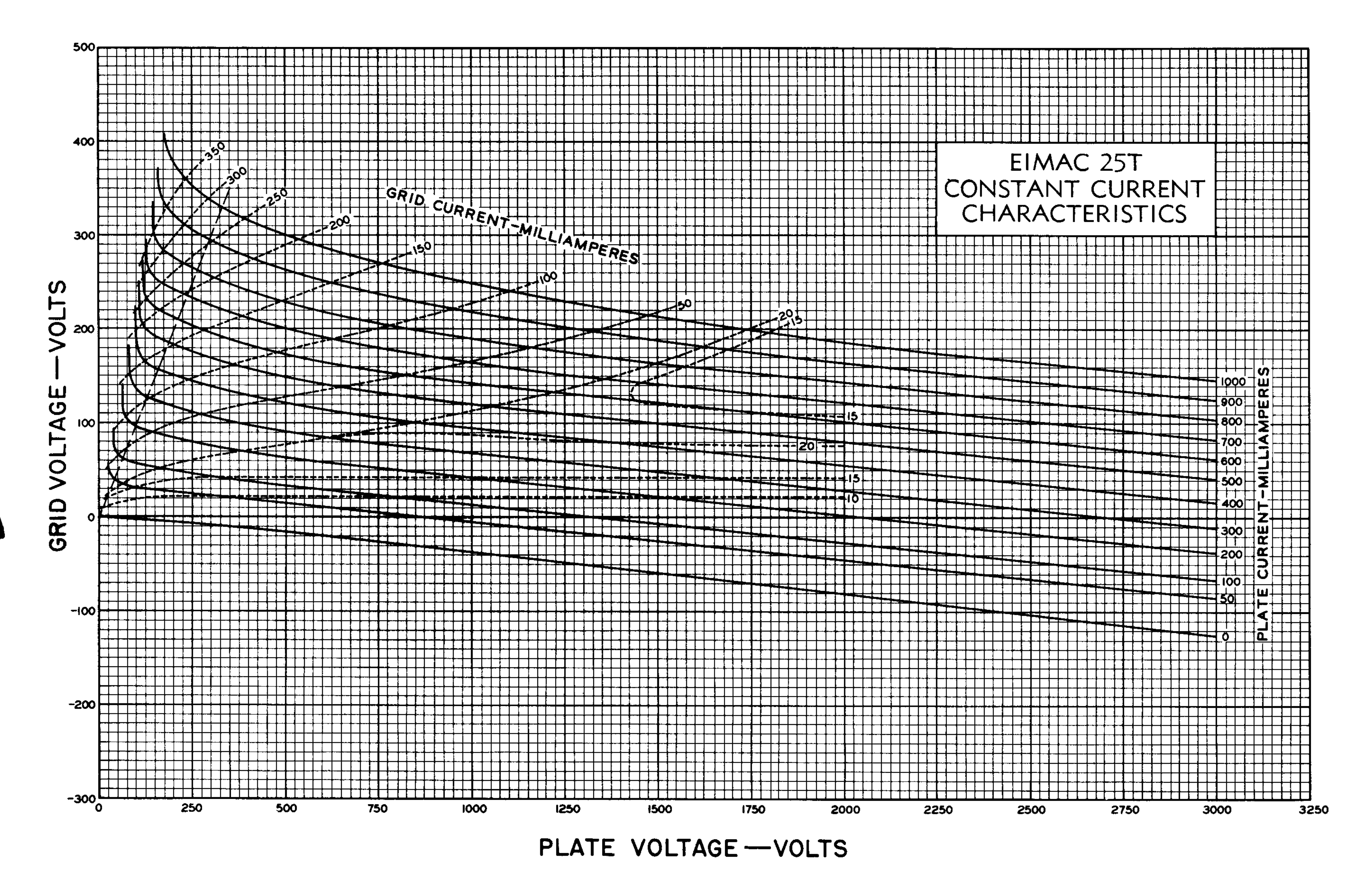
Radio Frequency Power Amplifier and Oscillator

Class-C *Telegraphy
(Key down conditions without modulation)

	Typical Operation—1 Tube			Max. Rating	
D-C Plate Voltage	1000	1500	2000	2000	volts
D-C Plate Current	72	67	63	75	ma.
D-C Grid Current	9	13	18	25	ma.
D-C Grid Voltage	–70	–95	–130		volts
Plate Power Output	47	75	100		watts
Plate Input	72	100	125		watts
Plate Dissipation	25	25	25	25	watts
Peak R. F. Grid Input Voltage, (approx.)	170	195	245		volts
Driving Power, (approx.)	1.3	2.2	4.0		watts

*The above figures show actual measured tube performance, and do not allow for variation in circuit losses.
▶Corrects typographical error on sheet dated 8-15-44.

Eimac 25T



EIMAC 25T
CONSTANT CURRENT
CHARACTERISTICS
GRID VOLTAGE — VOLTS
500
400
300
200
100
0
-100
-200
-300
PLATE VOLTAGE — VOLTS
0
250
500
750
1000
1250
1500
1750
2000
2250
2500
2750
3000
3250
GRID CURRENT-MILLIAMPERES
350
300
250
200
150
100
50
20
15
15
20
15
10
PLATE CURRENT-MILLIAMPERES
1000
900
800
700
600
500
400
300
200
100
50
0

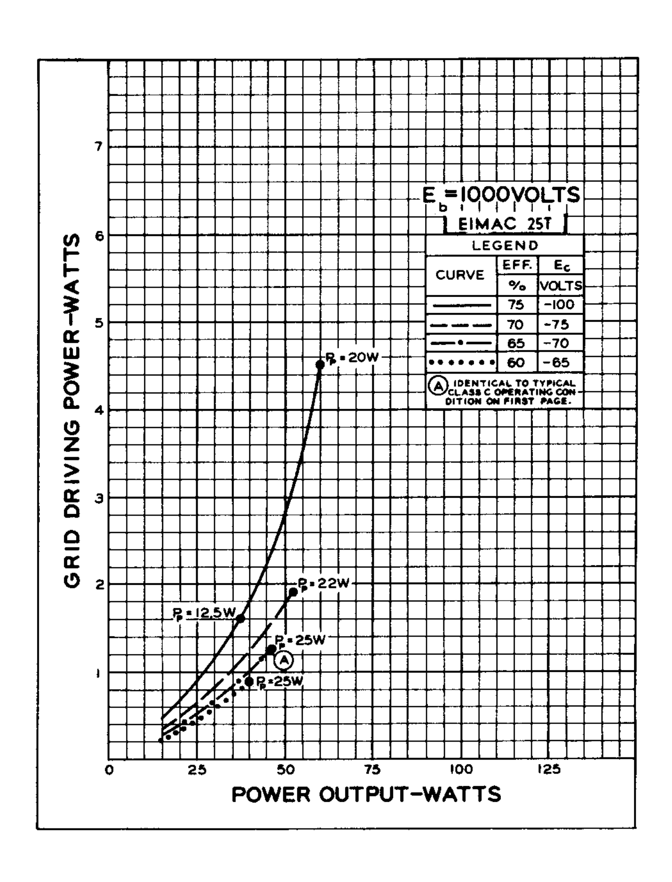
DRIVING POWER vs. POWER OUTPUT

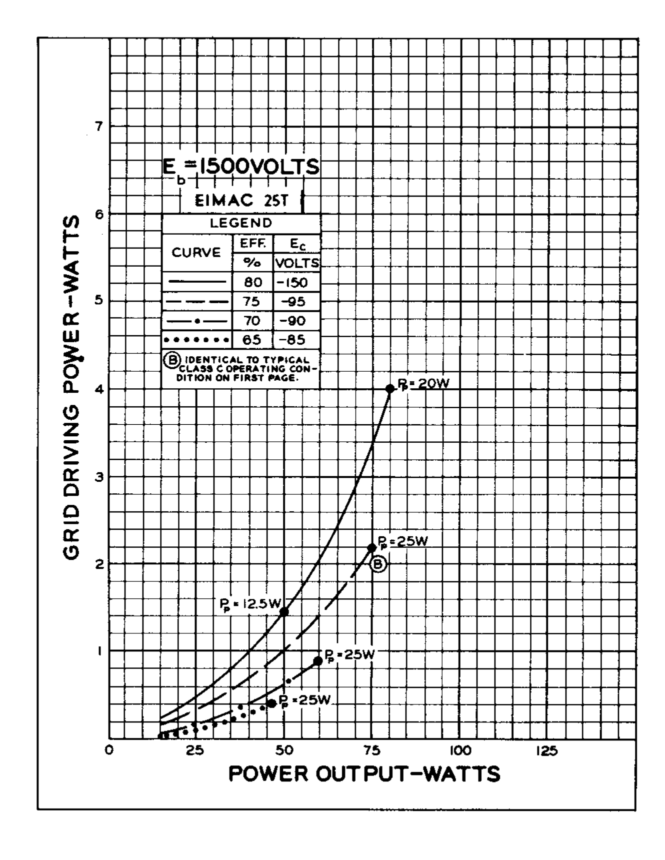
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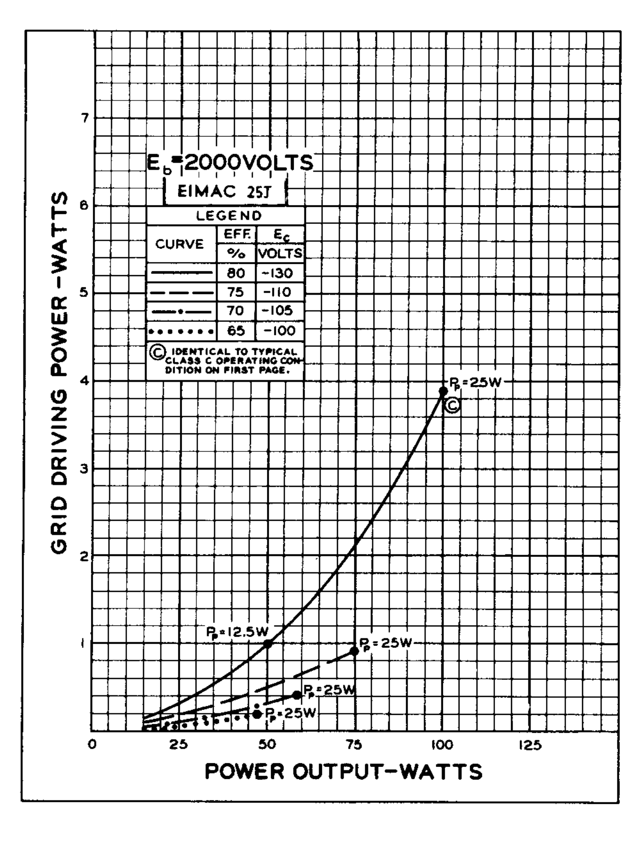
The three charts on this page show the relationship of plate efficiency, power output and grid driving power at plate voltages of 1000, 1500 and 2000 volts. These charts show combined grid and bias losses only. The driving power and power output figures do not include circuit losses. The plate dissipation in watts is indicated by P_p.

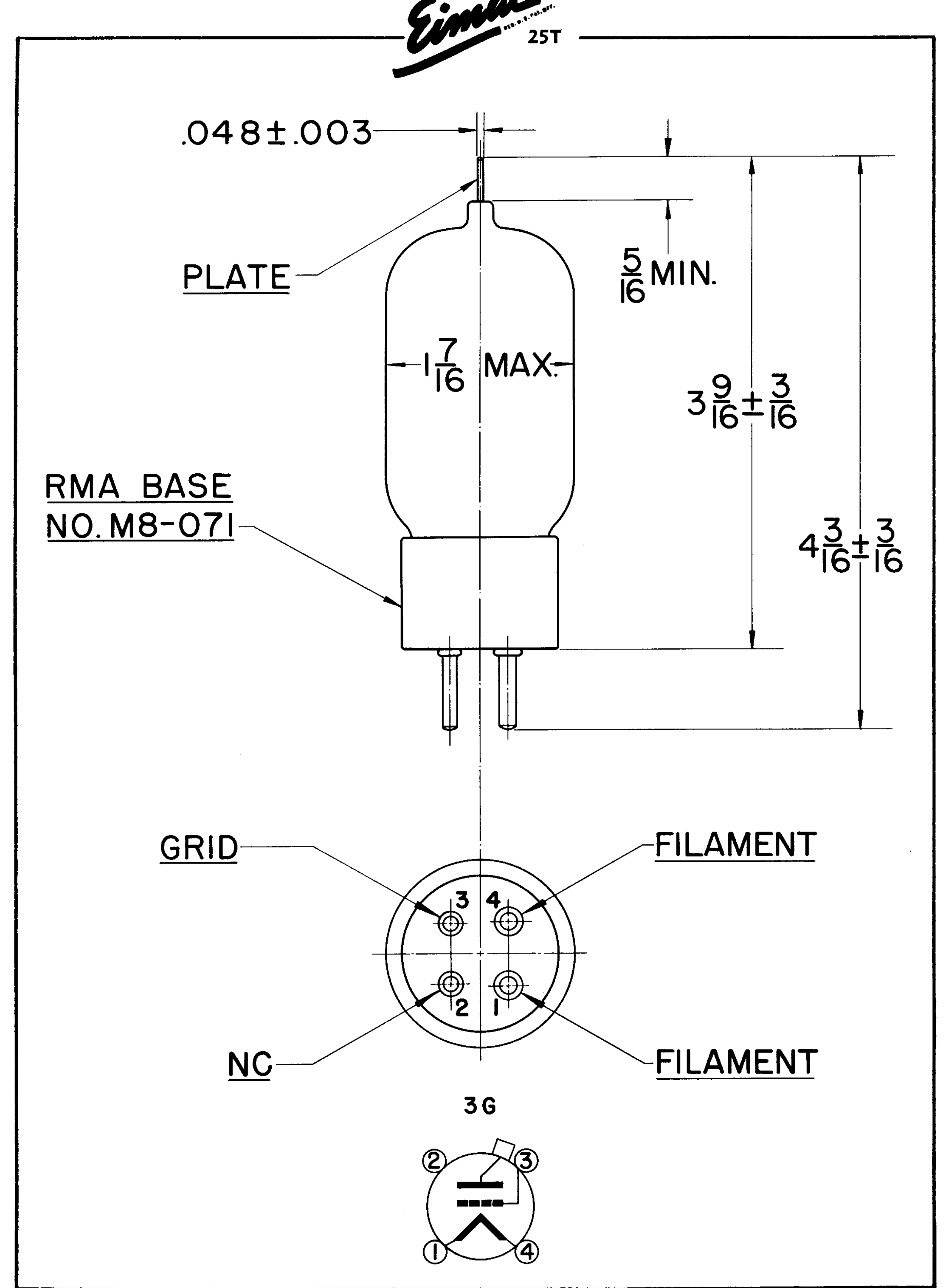
Points A, B, and C are identical to the typical Class C operating conditions shown on the first page under 1000, 1500, and 2000 volts respectively.

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Eimac
25T
.048±.003
PLATE
5/16 MIN.
1 7/16 MAX.
3 9/16 ± 3/16
RMA BASE
NO. M8-071
4 3/16 ± 3/16
GRID
FILAMENT
3
4
2
1
NC
FILAMENT
3G

1-D6-21728